

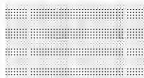
**FAX**  
TRANSMISSION

To: [r\_company]

From: [s\_company]

Subject:

**Message:** Examiner Rutledge,  
Attached is a draft amendment.  
I would be please to reschedule interview for 2PM tomorrow, Wednesday  
August 12<sup>th</sup>.  
Sincerely,  
Roland Long

**Young & Thompson**

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MS --  
PATENT  
8048-1134

**IN THE U.S. PATENT AND TRADEMARK OFFICE**

In re application of

Nobuyuki TAKAKUWA, et al.

Conf. 1713

Application No. 10/561,184

Group 2176

Filed April 17, 2006

Examiner A. Rutledge

INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND  
METHOD FOR REPRODUCING AUDIO INFORMATION AND STILL PICTURE  
INFORMATION SIMULTANEOUSLY (AS AMENDED)

**AMENDMENT**

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Final Office Action mailed May 15,  
2009, please amend the above-identified application as follows:

**Amendments to the Claims** are reflected in the listing  
of claims which begins 2 of this paper.

**Remarks** begin on page 22 of this paper.

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) An information record medium comprising:

still picture information which includes at least one still picture;

audio information; and

reproduction control information which reproduces the audio information simultaneously with reproduction of the still picture information, wherein,

the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information,

the still picture information has a total reproduction time,

the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

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the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the end of the audio information consecutively followed by the further reproduction of the audio information from the beginning of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

2. (original) The information record medium according to claim 1, wherein the reproduction control information includes still picture repeat information for controlling the repeat reproduction of the still picture information.

3. (original) The information record medium according to claim 1, wherein the reproduction control information defines reproduction timing of the audio information with using a reproduction time axis of the still picture as reference.

4. (original) The information record medium according to claim 3, wherein the reproduction control information is defined such that the audio information is reproduced only during reproduction of the still picture.

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5. (previously presented) The information record medium according to claim 1, wherein the audio repeat information indicates whether or not to repeatedly reproduce the same audio information.

6. (original) The information record medium according to claim 1, wherein the still picture repeat information indicates whether or not to repeatedly reproduce the still picture information.

7. (original) The information record medium according to claim 6, wherein each piece of the still picture information is constructed by an item unit defining a reproduction sequence of still picture contents, and wherein the still picture repeat information includes continue information indicating whether or not to reproduce subsequent still picture information as one reproduction sequence.

8. (currently amended) An information record apparatus comprising:

a first record unit which records still picture information including at least one still picture and audio information; and

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a second record unit which records reproduction control information for reproducing the audio information simultaneously with reproduction of the still picture information, wherein,

the second record unit records the reproduction control information so that the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information,

the still picture information has a total reproduction time,

the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the end of the audio information consecutively followed by the further reproduction of the audio information from the beginning of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

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9. (currently amended) An information record method comprising:

a first record process which records still picture information including at least one still picture and audio information; and

a second record process which records reproduction control information for reproducing the audio information simultaneously with reproduction of the still picture information, wherein,

the second record process records the reproduction control information so that the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information,

the still picture information has a total reproduction time,

the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the

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end of the audio information consecutively followed by the further reproduction of the audio information from the beginning of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

10. (currently amended) An information reproduction apparatus for reproducing an information record medium comprising:

still picture information which includes at least one still picture;

audio information; and

reproduction control information which reproduces the audio information simultaneously with reproduction of the still picture information, the reproduction control information including audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information, the apparatus comprising:

a reading unit which reads the still picture information, the audio information and the reproduction control information from the information record medium;

a still picture reproduction unit which reproduces the still picture information; and



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an audio reproduction unit which reproduces the audio information simultaneously with reproduction of the still picture information in accordance with the audio repeat information in the reproduction control information, wherein,

the still picture information has a total reproduction time,

the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the end of the audio information consecutively followed by the further reproduction of the audio information from the beginning of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

11. (currently amended) An information reproduction method for reproducing an information record medium comprising:

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still picture information which includes at least one still picture;

audio information; and

reproduction control information which reproduces the audio information simultaneously with reproduction of the still picture information, the reproduction control information including audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information, the method comprising:

a reading process which reads the still picture information, the audio information and the reproduction control information from the information record medium;

a still picture reproduction process which reproduces the still picture information; and

an audio reproduction process which reproduces the audio information simultaneously with reproduction of the still picture information in accordance with the audio repeat information in the reproduction control information, wherein,

the still picture information has a total reproduction time,

the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

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the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the end of the audio information consecutively followed by the further reproduction of the audio information from the beginning of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

12. (currently amended) An information record reproduction apparatus comprising:

an information record unit and an information reproduction unit, wherein the information record unit includes:

a first record unit which records still picture information including at least one still picture and audio information; and

a second record unit which records reproduction control information for reproducing the audio information simultaneously with reproduction of the still picture information,

wherein the second record unit records the reproduction control information so that the reproduction control information

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includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information, and wherein the information reproduction unit includes:

a reading unit which reads the still picture information, the audio information and the reproduction control information from the information record medium;

a still picture reproduction unit which reproduces the still picture information; and

an audio reproduction unit which reproduces the audio information simultaneously with reproduction of the still picture information in accordance with the audio repeat information in the reproduction control information, wherein,

the still picture information has a total reproduction time,

the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the end of the audio information consecutively followed by the further reproduction of the audio information from the beginning

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of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

13. (currently amended) An information record reproduction method comprising an information record process and an information reproduction process, wherein the information record process includes:

a first record process which records still picture information including at least one still picture and audio information; and

a second record process which records reproduction control information for reproducing the audio information simultaneously with reproduction of the still picture information,

wherein the second record process records the reproduction control information so that the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information, and

wherein the information reproduction process includes:

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a reading process which reads the still picture information, the audio information and the reproduction control information from the information record medium;

a still picture reproduction process which reproduces the still picture information; and

an audio reproduction process which reproduces the audio information simultaneously with reproduction of the still picture information in accordance with the audio repeat information in the reproduction control information, wherein,

the still picture information has a total reproduction time,

the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the end of the audio information consecutively followed by the further reproduction of the audio information from the beginning of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction

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time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

14. (currently amended) A computer program executed on a computer, making the computer function as:

a first record unit which records still picture information including at least one still picture and audio information; and

a second record unit which records reproduction control information for reproducing the audio information simultaneously with reproduction of the still picture information, wherein,

the second record unit records the reproduction control information so that the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information,

the still picture information has a total reproduction time,

the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

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the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the end of the audio information consecutively followed by the further reproduction of the audio information from the beginning of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

15. (currently amended) A computer program comprising still picture information including at least one still picture, audio information and reproduction control information which reproduces the audio information simultaneously with reproduction of the still picture information, executed on a computer so that the reproduction control information reproduces an information record medium including audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information, and making the computer function as:

a reading unit which reads the still picture information, the audio information and the reproduction control information from the information record medium;

a still picture reproduction unit which reproduces the still picture information; and



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an audio reproduction unit which reproduces the audio information simultaneously with reproduction of the still picture information in accordance with the audio repeat information in the reproduction control information, wherein,

the still picture information has a total reproduction time,

the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the end of the audio information consecutively followed by the further reproduction of the audio information from the beginning of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

16. (currently amended) A computer program executed on a computer, making the computer function as an information record

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reproduction apparatus comprising an information record unit and an information reproduction unit,

wherein the information record unit includes a first record unit which records still picture information including: at least one still picture and audio information; and a second record unit which records reproduction control information for reproducing the audio information simultaneously with reproduction of the still picture information,

wherein the second record unit records the reproduction control information so that the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information, and

wherein the information reproduction unit includes:

a reading unit which reads the still picture information, the audio information and the reproduction control information from the information record medium;

a still picture reproduction unit which reproduces the still picture information; and

an audio reproduction unit which reproduces the audio information simultaneously with reproduction of the still picture information in accordance with the audio repeat information in the reproduction control information, wherein,

the still picture information has a total reproduction time,

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the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the end of the audio information consecutively followed by the further reproduction of the audio information from the beginning of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

17. (currently amended) A computer-readable medium encoded with a data structure comprising:

a control signal; and

still picture information including at least one still picture audio information and reproduction control information for reproducing the audio information simultaneously with reproduction of the still picture information, wherein,

the reproduction control information includes audio repeat information for controlling repeat reproduction of the

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same audio information simultaneously with the still picture information,

the still picture information has a total reproduction time,

the audio information has a beginning and an end, and the audio information has an reproduction time from the beginning to the end,

the reproduction time of the audio information is shorter than the total reproduction time of the still picture information, and

the repeat reproduction of the same audio information is the repeated reproduction of the audio information through the end of the audio information consecutively followed by the further reproduction of the audio information from the beginning of the audio information so that the repeated reproduction of the same audio information is continued during the reproduction of the still picture information resulting in a total reproduction time of the repeat reproduction of the audio information is equal to the total reproduction time of the still picture information.

18. (New) An information record medium, comprising:

recorded object data and recorded reproduction control information,

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the object data being a multiplex of a first stream including still picture information and a second stream including audio information by a unit of packet,

the reproduction control information comprising

i) first reproduction sequence information which designates reproduction sequence of the first stream by a first unit and which includes time information indicating reproduction start timing of the first unit,

ii) reproduction time information which indicates whether each still picture of the still picture information of the first stream is a finite value or an infinite value, and which indicates the reproduction time of the still picture whose reproduction time is the finite value,

iii) first type information which indicates a type of the first unit,

iv) first address information which indicates an address of the object data designated by the first unit,

v) second reproduction sequence information which designates reproduction sequence of the second stream by second unit, and which includes audio repeat information indicating whether or not the audio information of the second unit is to be consecutively repeatedly reproduced,

vi) second type information which indicates a type of the second unit, and

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vii) second address information which indicates an address of the object data designated by the second unit,

wherein the object data and the reproduction control information are recorded separately at different areas of the information record medium.

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REMARKS

The claims have been amended as to form and to detail the recited subject matter. See, e.g., Figures 20-23, as well as the related specification disclosure beginning on page 43, line 4.

As to new claim 18, (1) "Object data" is described in specification, page 14, line 15 to page 16, line 6 and FIGS. 2A to 2C; page 22, line 19, to page 23, line 5 and FIG. 10; (2) "Reproduction control information" is described in specification, page 17, line 24 to page 21, line 18 and FIGS. 3 to 7. The "first storage position information" and the "second storage position information" are described in specification, page 22, lines 1 to 9. Further, the reproduction control information particularly associated with the Browsable Slide Show is described in specification, page 43, line 4 to page 50, line 4 and FIG. 24. Specifically, the "reproduction time information" is described in specification, page 43, line 17 to 33.

The correspondences of other elements in claim 18 with the elements in the embodiment are as follows:

(claim 18)	(Embodiment)
reproduction control information:	playlist & Object Information File;
first unit:	item
first reproduction sequence information:	item information

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first type information: item type

first address information: ES map in Object  
Information File

second unit: sub-item

second reproduction sequence information: sub-item information

second type information: sub-item type

second address information: ES map in Object  
Information File.

No new matter is entered by way of these amendments.  
Entry of this amendment is solicited.

In new claim 18, the object data is formed by multiplexing a first stream including still picture information and a second stream including audio information by a packet unit. The object data and the reproduction control information are recorded separately at different areas on the information record medium. Therefore, a person who records data on the information record medium can separately set the reproduction time of each still picture information.

The first stream including the still picture information is reproduced according to the first reproduction sequence information, and the second stream including the audio



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information is reproduced according to the second reproduction sequence information.

The second reproduction sequence information includes the audio repeat information indicating whether or not the audio information of the second unit is to be consecutively repeatedly reproduced.

Further, for each still picture information, the reproduction time information indicates whether the reproduction time for the still picture is a finite value or an infinite value, and the reproduction time for the still picture information whose reproduction time is the finite value.

Therefore, even if the reproduction time of the still picture information is different from the reproduction time of the audio information when the still picture information and the audio information are reproduced at the same time, a person who records information on the information record medium can set reproduction to repeatedly reproduce the audio information during the reproduction of the still picture information if the audio repeat information indicates the repeated reproduction.

#### Rejection Under 35 USC §102

The Office Action rejects claims 1-17 under 35 U.S.C. §102(b) as being anticipated by MORIYAMA 4,680,647.

The Applicants respectfully traverse this rejection.

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The Applicants respectfully submit that MORIYAMA does not disclose every element recited in claims 1-17 and therefore does not anticipate these claims.

More specifically, claim 1 recites an information record medium, which includes "reproduction control information which reproduces the audio information simultaneously with reproduction of the still picture information, wherein the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information."

Claims 8 and 9 recite "... the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information."

Claim 10 recites "... which reproduces the audio information simultaneously with reproduction of the still picture information in accordance with the audio repeat information in the reproduction control information."

Claim 11 recites "... the reproduction control information including audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information, the method comprising ... an audio reproduction process which reproduces the audio information simultaneously with reproduction of the still picture information

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in accordance with the audio repeat information in the reproduction control information."

Claim 12 recites "... audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information, and wherein the information reproduction unit includes ... an audio reproduction unit which reproduces the audio information simultaneously with reproduction of the still picture information in accordance with the audio repeat information in the reproduction control information."

Claim 13 recites "... the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information."

Claim 14 recites "... the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information."

Claim 15 recites "... audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information".

Claim 16 recites "... reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information".

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Claim 17 recites "... reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information."

Thus, each of the independent claims include the feature of the same audio information being repeatedly reproduced during the reproduction of the still picture information. MORIYAMA fails to disclose at least this feature.

On page 3 of the Official Action (first two full paragraphs), it is stated that MORIYAMA teaches "wherein the reproduction control information includes audio repeat information for controlling repeat reproduction of the same audio information simultaneously with the still picture information, because Moriyama teaches adding several types of audio to a still image recording, in order to add selection of recordings of audio information (col. 6, l. 9-51). Moriyama teaches successive reproduction for audio data and still image mode (col. 5, l. 5-68; col. 43, l.10-67), or reproduction in response to a control signal supplied from an external source (col. 39, l. 46-col. 40, l. 39). Moriyama teaches wherein the audio repeat information indicates whether or not to repeatedly reproduce the same audio information (col. 49, l. 27-58), because Moriyama teaches switching between successive and unsucessive reproduction."

MORIYAMA discloses that "a method for recording and reproducing a video format signal in which reproduced sounds

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based on audio data items accompanying a plurality of still images can successively be generated,". See column 5, lines 5-9. This only discloses generating audio information at the same time video information is generated.

MORIYAMA uses the term successively to mean "one after another". "Successively" does not mean "repeat reproduction" of a specific audio information.

Indeed, there is no discussion or suggestion in this passage (or any other passage) of "the same audio information being repeatedly reproduced during the reproduction of the still picture information".

At column 6, lines 1-45, MORIYAMA teaches reproducing a video format signal in which different items of selected audio information are also reproduced. However, again there is no mention of the selected audio information being repeatedly reproduced during the reproduction of the still picture information.

MORIYAMA Figure 11 and column 10, beginning at line 15, discloses reproducing a still image with general audio information. Although there is disclosure of how to reproduce audio information at the same time video information is being reproduced, there is nothing in this passage that addresses repeatedly reproducing a same audio information while the video information is being reproduced.

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The Official Action states that MORIYAMA discloses successive reproduction of audio information. However, what this means is a sequence of audio information is reproduced one audio information after another audio information, i.e., in succession. See column 43, beginning at line 10. However, there is no discussion of the same audio information being repeatedly reproducing at the same time video information is being reproduced.

The Official Action stated (page 3, second full paragraph) that "Moriyama teaches wherein the audio repeat information indicates whether or not to repeatedly reproduce the same audio information (col. 49, l. 27-58), because Moriyama teaches switching between successive and unsuccessful reproduction."

This passage of MORIYAMA discloses (emphasis added):

"With the present invention, ... audios digitized and recorded in a video format signal can successively be reproduced without interruption. Switching between successive reproduction and unsuccessful reproduction in the reproducing system can automatically be effected by referring to audio data and recorded control signals, so that the reproducing system can be operated with ease. The system of the invention can therefore handle various forms of video data. For example, still images can successively be reproduced while producing audios. Audio segments can be added to a still image or the like with a small buffer

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memory in the reproducing system through successive reproduction."

"Although in the above embodiment different kinds of sounds and characters are given to a still image and can be selectively read out, not only characters may be recorded but the answer to a problem presented in the form of a still image may be recorded as a digital signal, and symbols or the like may be displayed. An image to which sounds, characters, and the like are added is not limited to a still image, but may be a moving image or successively changing images. Although in the embodiment digital data items such as sounds and characters as they are read out of the large-capacity buffer memory are selected, they may be selected when they are written into the large-capacity buffer memory. With such an alternative, however, it is not possible to issue different sounds and characters successively while only one still image is being reproduced. The capacity of the memory may be small since all kinds of audio and characters are written therein."

To repeat what has been reviewed above, "successively" does not means "repeatedly reproduce the same information".

Accordingly, MORIYAMA fails to anticipate the claimed invention.

For at least the aforementioned reasons, the Applicants respectfully submit that claims 1 and 8-17 are patentably distinguishable over MORIYAMA. Likewise, claims 2-7, which

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depend from claim 1 are also patentable for at least the same reasons. Accordingly, Applicants respectfully request the 35 U.S.C. §102(b) rejection of claims 1-17 over MORIYAMA be withdrawn and the claims allowed.

Each of the above-discussed features of claim 18 is novel over MORIYAMA. Allowance of claim 18 is also solicited.

Entry of the above amendments is earnestly solicited. Applicants respectfully request that a timely Notice of Allowance be issued in this case.

Should there be any matters that need to be resolved in the present application; the Examiner is respectfully requested to contact the undersigned at the telephone number listed below.

This amendment is believed to be fully responsive and to put the case in condition for allowance. An early and favorable action on the merits is earnestly requested.

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

Respectfully submitted,

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